



1

SEQUENCE LISTING

<110> WADA, MANABU
WADA, NAKO

<120> ANTI-HIV AGENTS

<130> HAYAK-9

<140> 10/076,421

<141> 2002-02-19

<150> JP 2001-42655

<151> 2001-02-20

<150> JP 2001-184284

<151> 2001-06-19

<160> 5

<170> PatentIn Ver. 2.1

<210> 1

<211> 1296

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(1293)

<400> 1

atg	aga	gcc	ctg	ctg	gcg	cgc	ctg	ctt	ctc	tgc	gtc	ctg	gtc	gtg	agc	48
Met	Arg	Ala	Leu	Leu	Ala	Arg	Leu	Leu	Leu	Cys	Val	Leu	Val	Val	Ser	
1				5					10						15	

gac	tcc	aaa	ggc	agc	aat	gaa	ctt	cat	caa	gtt	cca	tcg	aac	tgt	gac	96
Asp	Ser	Lys	Gly	Ser	Asn	Glu	Leu	His	Gln	Val	Pro	Ser	Asn	Cys	Asp	
			20					25						30		

tgt	cta	aat	gga	gga	aca	tgt	gtg	tcc	aac	aag	tac	ttc	tcc	aac	att	144
Cys	Leu	Asn	Gly	Gly	Thr	Cys	Val	Ser	Asn	Lys	Tyr	Phe	Ser	Asn	Ile	
		35					40					45				

cac	tgg	tgc	aac	tgc	cca	aag	aaa	ttc	gga	ggg	cag	cac	tgt	gaa	ata	192
His	Trp	Cys	Asn	Cys	Pro	Lys	Lys	Phe	Gly	Gly	Gln	His	Cys	Glu	Ile	
	50						55				60					

gat	aag	tca	aaa	acc	tgc	tat	gag	ggg	aat	ggg	cac	ttt	tac	cga	gga	240
Asp	Lys	Ser	Lys	Thr	Cys	Tyr	Glu	Gly	Asn	Gly	His	Phe	Tyr	Arg	Gly	
	65					70				75					80	

aag	gcc	agc	act	gac	acc	atg	ggc	cgg	ccc	tgc	ctg	ccc	tgg	aac	tct	288
Lys	Ala	Ser	Thr	Asp	Thr	Met	Gly	Arg	Pro	Cys	Leu	Pro	Trp	Asn	Ser	
				85					90						95	

gcc act gtc ctt cag caa acg tac cat gcc cac aga tct gat gct ctt	336
Ala Thr Val Leu Gln Gln Thr Tyr His Ala His Arg Ser Asp Ala Leu	
100 105 110	
cag ctg ggc ctg ggg aaa cat aat tac tgc agg aac cca gac aac cgg	384
Gln Leu Gly Leu Gly Lys His Asn Tyr Cys Arg Asn Pro Asp Asn Arg	
115 120 125	
agg cga ccc tgg tgc tat gtg cag gtg ggc cta aag ccg ctt gtc caa	432
Arg Arg Pro Trp Cys Tyr Val Gln Val Gly Leu Lys Pro Leu Val Gln	
130 135 140	
gag tgc atg gtg cat gac tgc gca gat gga aaa aag ccc tcc tct cct	480
Glu Cys Met Val His Asp Cys Ala Asp Gly Lys Lys Pro Ser Ser Pro	
145 150 155 160	
cca gaa gaa tta aaa ttt cag tgt ggc caa aag act ctg agg ccc cgc	528
Pro Glu Glu Leu Lys Phe Gln Cys Gly Gln Lys Thr Leu Arg Pro Arg	
165 170 175	
ttt aag att att ggg gga gaa ttc acc acc atc gag aac cag ccc tgg	576
Phe Lys Ile Ile Gly Gly Glu Phe Thr Thr Ile Glu Asn Gln Pro Trp	
180 185 190	
ttt gcg gcc atc tac agg agg cac cgg ggg ggc tct gtc acc tac gtg	624
Phe Ala Ala Ile Tyr Arg Arg His Arg Gly Gly Ser Val Thr Tyr Val	
195 200 205	
tgt gga ggc agc ctc atc agc cct tgc tgg gtg atc agc gcc aca cac	672
Cys Gly Gly Ser Leu Ile Ser Pro Cys Trp Val Ile Ser Ala Thr His	
210 215 220	
tgc ttc att gat tac cca aag aag gag gac tac atc gtc tac ctg ggt	720
Cys Phe Ile Asp Tyr Pro Lys Lys Glu Asp Tyr Ile Val Tyr Leu Gly	
225 230 235 240	
cgc tca agg ctt aac tcc aac acg caa ggg gag atg aag ttt gag gtg	768
Arg Ser Arg Leu Asn Ser Asn Thr Gln Gly Glu Met Lys Phe Glu Val	
245 250 255	
gaa aac cta atc cta cac aag gac tac agc gct gac acg ctt gct cac	816
Glu Asn Leu Ile Leu His Lys Asp Tyr Ser Ala Asp Thr Leu Ala His	
260 265 270	
cac aac gac att gcc ttg ctg aag atc cgt tcc aag gag ggc agg tgt	864
His Asn Asp Ile Ala Leu Leu Lys Ile Arg Ser Lys Glu Gly Arg Cys	
275 280 285	
gcg cag cca tcc cgg act ata cag acc atc tgc ctg ccc tcg atg tat	912
Ala Gln Pro Ser Arg Thr Ile Gln Thr Ile Cys Leu Pro Ser Met Tyr	
290 295 300	
aac gat ccc cag ttt ggc aca agc tgt gag atc act ggc ttt gga aaa	960
Asn Asp Pro Gln Phe Gly Thr Ser Cys Glu Ile Thr Gly Phe Gly Lys	
305 310 315 320	

gag aat tct acc gac tat ctc tat ccg gag cag ctg aaa atg act gtt 1008
 Glu Asn Ser Thr Asp Tyr Leu Tyr Pro Glu Gln Leu Lys Met Thr Val
 325 330 335

gtg aag ctg att tcc cac cgg gag tgt cag cag ccc cac tac tac ggc 1056
 Val Lys Leu Ile Ser His Arg Glu Cys Gln Gln Pro His Tyr Tyr Gly
 340 345 350

tct gaa gtc acc acc aaa atg ctg tgt gct gct gac cca cag tgg aaa 1104
 Ser Glu Val Thr Thr Lys Met Leu Cys Ala Ala Asp Pro Gln Trp Lys
 355 360 365

aca gat tcc tgc cag gga gac tca ggg gga ccc ctc gtc tgt tcc ctc 1152
 Thr Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Ser Leu
 370 375 380

caa ggc cgc atg act ttg act gga att gtg agc tgg ggc cgt gga tgt 1200
 Gln Gly Arg Met Thr Thr Gly Ile Val Ser Trp Gly Arg Gly Cys
 385 390 395 400

gcc ctg aag gac aag cca ggc gtc tac acg aga gtc tca cac ttc tta 1248
 Ala Leu Lys Asp Lys Pro Gly Val Tyr Thr Arg Val Ser His Phe Leu
 405 410 415

ccc tgg atc cgc agt cac acc aag gaa gag aat ggc ctg gcc ctc tga 1296
 Pro Trp Ile Arg Ser His Thr Lys Glu Glu Asn Gly Leu Ala Leu
 420 425 430

<210> 2

<211> 431

<212> PRT

<213> Homo sapiens

<400> 2

Met Arg Ala Leu Leu Ala Arg Leu Leu Leu Cys Val Leu Val Val Ser
 1 5 10 15

Asp Ser Lys Gly Ser Asn Glu Leu His Gln Val Pro Ser Asn Cys Asp
 20 25 30

Cys Leu Asn Gly Gly Thr Cys Val Ser Asn Lys Tyr Phe Ser Asn Ile
 35 40 45

His Trp Cys Asn Cys Pro Lys Lys Phe Gly Gly Gln His Cys Glu Ile
 50 55 60

Asp Lys Ser Lys Thr Cys Tyr Glu Gly Asn Gly His Phe Tyr Arg Gly
 65 70 75 80

Lys Ala Ser Thr Asp Thr Met Gly Arg Pro Cys Leu Pro Trp Asn Ser
 85 90 95

Ala Thr Val Leu Gln Gln Thr Tyr His Ala His Arg Ser Asp Ala Leu
 100 105 110

Gln Leu Gly Leu Gly Lys His Asn Tyr Cys Arg Asn Pro Asp Asn Arg
 115 120 125

Arg	Arg	Pro	Trp	Cys	Tyr	Val	Gln	Val	Gly	Leu	Lys	Pro	Leu	Val	Gln	130	135	140	
Glu	Cys	Met	Val	His	Asp	Cys	Ala	Asp	Gly	Lys	Lys	Pro	Ser	Ser	Pro	145	150	155	160
Pro	Glu	Glu	Leu	Lys	Phe	Gln	Cys	Gly	Gln	Lys	Thr	Leu	Arg	Pro	Arg	165	170	175	
Phe	Lys	Ile	Ile	Gly	Gly	Glu	Phe	Thr	Thr	Ile	Glu	Asn	Gln	Pro	Trp	180	185	190	
Phe	Ala	Ala	Ile	Tyr	Arg	Arg	His	Arg	Gly	Gly	Ser	Val	Thr	Tyr	Val	195	200	205	
Cys	Gly	Gly	Ser	Leu	Ile	Ser	Pro	Cys	Trp	Val	Ile	Ser	Ala	Thr	His	210	215	220	
Cys	Phe	Ile	Asp	Tyr	Pro	Lys	Lys	Glu	Asp	Tyr	Ile	Val	Tyr	Leu	Gly	225	230	235	240
Arg	Ser	Arg	Leu	Asn	Ser	Asn	Thr	Gln	Gly	Glu	Met	Lys	Phe	Glu	Val	245	250	255	
Glu	Asn	Leu	Ile	Leu	His	Lys	Asp	Tyr	Ser	Ala	Asp	Thr	Leu	Ala	His	260	265	270	
His	Asn	Asp	Ile	Ala	Leu	Leu	Lys	Ile	Arg	Ser	Lys	Glu	Gly	Arg	Cys	275	280	285	
Ala	Gln	Pro	Ser	Arg	Thr	Ile	Gln	Thr	Ile	Cys	Leu	Pro	Ser	Met	Tyr	290	295	300	
Asn	Asp	Pro	Gln	Phe	Gly	Thr	Ser	Cys	Glu	Ile	Thr	Gly	Phe	Gly	Lys	305	310	315	320
Glu	Asn	Ser	Thr	Asp	Tyr	Leu	Tyr	Pro	Glu	Gln	Leu	Lys	Met	Thr	Val	325	330	335	
Val	Lys	Leu	Ile	Ser	His	Arg	Glu	Cys	Gln	Gln	Pro	His	Tyr	Tyr	Gly	340	345	350	
Ser	Glu	Val	Thr	Thr	Lys	Met	Leu	Cys	Ala	Ala	Asp	Pro	Gln	Trp	Lys	355	360	365	
Thr	Asp	Ser	Cys	Gln	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Val	Cys	Ser	Leu	370	375	380	
Gln	Gly	Arg	Met	Thr	Leu	Thr	Gly	Ile	Val	Ser	Trp	Gly	Arg	Gly	Cys	385	390	395	400
Ala	Leu	Lys	Asp	Lys	Pro	Gly	Val	Tyr	Thr	Arg	Val	Ser	His	Phe	Leu	405	410	415	
Pro	Trp	Ile	Arg	Ser	His	Thr	Lys	Glu	Glu	Asn	Gly	Leu	Ala	Leu		420	425	430	

<210> 3
<211> 4
<212> PRT
<213> Homo sapiens

<400> 3
Lys Lys Phe Gly
1

<210> 4
<211> 12
<212> PRT
<213> Homo sapiens

<400> 4
Ala Ser Thr Asp Thr Met Gly Arg Pro Cys Leu Pro
1 5 10

<210> 5
<211> 10
<212> PRT
<213> Homo sapiens

<400> 5
Arg Arg Pro Trp Cys Tyr Val Gln Val Gln
1 5 10